

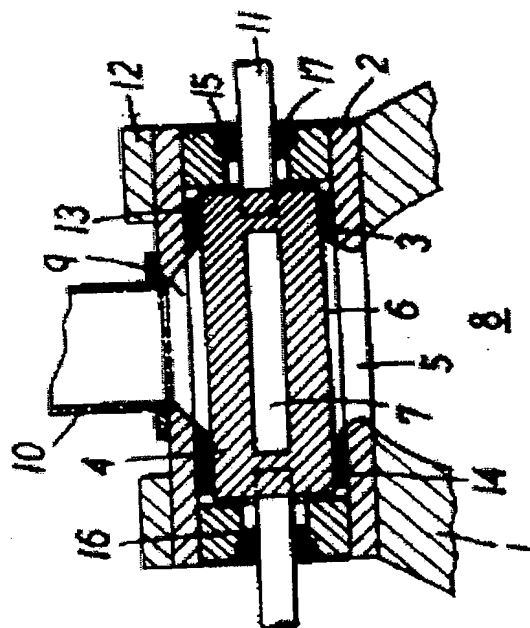
# CERAMIC ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINE

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## Abstract of JP58119909

**PURPOSE:**In a rotary valve to be employed in an internal-combustion engine, to maintain the gap at the sliding section of the outside fixed member and inside rotary member formed of ceramic material in proper range continuously by selecting the thermal expansion factors of them.

**CONSTITUTION:**When the thermal expansion factor of an inside rotary member is lower than  $2-3 \times 10^{-6} / \text{deg.C}$ , the outside fixed member is formed of a material having 1-2 times of the thermal expansion factor. When it will exceed over  $2-3 \times 10^{-6} / \text{deg.C}$ , the thermal expansion factor of the outside fixed member is made higher than two times that of the inside rotary member. Consequently the gap between both members is maintained in proper range continuously.



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